

## ABSTRACT

A manifold for a fuel cell system comprises a plurality of first ports for connecting to fuel cell peripherals; a plurality of ports for connecting to a fuel cell stack; and a plurality of fluid passages within the manifold in communication with the said plurality of ports connecting to the fuel cell peripherals and with the first and second ports for providing, communication of fluids between the fuel cell stack and fuel cell peripherals. The manifold provides a higher degree of system integration, considerably reduced piping, fittings and associated hardware and hence generally reduces the size and weight of the fuel cell system. Thermal-fluid related system losses are also minimized.

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